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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page of

Complete If Known	
Application Number	09/998,600
Filing Date	November 16, 2001
First Named Inventor	Unger, Marc A., et. al.
Art Unit	3754
Examiner Name	
Attorney Docket Number	020174-003310US

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U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A	US-5,178,180		01-12-1993	Mettner	
	B	US-5,846,398		12-08-1998	Zanzucchi et al.	
	AC	US-5,872,010		02-16-1999	Karger et al.	
	AD	US-5,879,632		03-09-1999	Demers	
	AE	US-6,033,544		03-07-2000	Demers et al.	
	AF	US-6,033,546		03-07-2000	Ramsey	
	AG	US-6,117,398		09-12-2000	Demers	
	AH	US-				

FOREIGN PATENT DOCUMENTS

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		Country Code ³	Number ⁴	Kind Code ⁴ (if known)				

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 7

Complete if Known

Application Number	09/998,600
Filing Date	November 16, 2001
First Named Inventor	Unger, Marc A.
Art Unit	1743
Examiner Name	Gordon, Brian R.
Attorney Docket Number	020174-003310US

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		Number Kind Code ² (if known)			
	A1	US-3,570,515	03-16-1971	Kinner	
	A2	US-3,747,628	07-24-1973	Holster et al.	
	A3	US-4,046,159	09-06-1977	Pegourle	
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	A10	US-5,088,515	02-18-1992	Kamen	
	A11	US-5,096,388	03-17-1992	Weinberg	
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	A31	US-5,705,018	01-06-1998	Hartley	
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	A38	US-5,876,187	03-02-1999	Afromowitz	
	A39	US-5,932,789	08-03-1999	Moles	
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	A41	US-6,007,309	12-28-1999	Hartley	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/998,600		
		Filing Date	November 16, 2001		
		First Named Inventor	Unger, Marc A.		
		Art Unit	1743		
		Examiner Name	Gordon, Brian R.		
Sheet	2	of	7	Attorney Docket Number	020174-003310US

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	A42	US-6,043,080	03-28-2000	Lipshutz et al.	
	A43	US-6,068,751	05-30-2000	Neukermans	
	A44	US-6,088,825	07-11-2000	Sundberg et al.	
	A45	US-6,090,251	07-18-2000	Sundberg et al.	
	A46	US-6,123,769	09-26-2000	Sanjoh	
	A47	US-6,155,282	12-05-2000	Zachary et al.	
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	B1	EPO	EP 0 592 094	A2	04-13-1994			
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	B9	GB	2 308 460	A	06-25-1997			<input type="checkbox"/>
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	B11	PCT	WO 99/17093	A1	04-08-1999			<input type="checkbox"/>
	B12	PCT	WO 00/60345	A1	10-12-2000			<input type="checkbox"/>
	B13	PCT	WO 02/060582	A2	08-08-2002			<input type="checkbox"/>

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60199953 v1



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	C1	AHN et al., "Fluid Micropumps Based on Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), held in Amsterdam, Netherlands on 1/29-2/2/1995, pgs. 408-412.	
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	C7	CHOU et al. "A microfabricated device for sizing and sorting DNA molecules", Applied Physical Sciences, Biophysics, Proc. Natl. Acad. Sci., 1999, pp. 11-13, Vol. 96, U.S.A.	
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	C16	GASS et al., "Integrated flow-regulated silicon micropump," Sensors and Actuators A Physical, 1994, p. 335-338, Vol. 43.	
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	C44	SCHASFOORT et al., "Field-Effect Flow Control for Microfabricated Fluidic Networks," Science, 1999, 286:942-945.	
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	C48	SMITS, J.G., "Piezoelectric Micropump with Three Valves Working Peristaltically", Sensors and Actuators, 1990, pp. 203-206, Vol. A21-A23.	
	C49	SOHN et al., "Capacitance cytometry: Measuring biological cells one by one," PNAS, 97(20):10687-10690 (2000).	
	C50	TUFTE et al., "Silicon Diffused-Element Piezoresistive Diaphragms," J. Appl. Phys., November 1962, pp. 3322-3327, Vol. 33, No. 11.	
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	C52	UNGER, MARC A. et al. "Monolithic Microfabricated Valves and Pumps by Multilayer Soft Lithography" Science, 07 April 2000, Vol. 288, 113-116	
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	C56	WASHIZU et al., "Molecular Dielectrophoresis of Biopolymers," IEEE Transactions on Industry Applications, 1994, 30(4):835-843.	
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Sheet	7	of	7	Attorney Docket Number	020174-003310US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C58	XIA et al., "Soft Lithography," Angew. Chem. Int. Ed., 1998, 37:551-575.	
	C59	XIA, Y. et al., "Micromolding of Polymers in Capillaries: Applications in Microfabrication," Chemistry of Materials, 8(7):1558-1567 (1996).	
	C60	YANG et al. "A MemS Thermopneumatic Silicone Membrane Valve", Proceedings of IEEE, 10th Annual International Workshop on MicroElectro Mechanical Systems, Sensors and Actuators, 1998, A64(1):101-108.	
	C61	YANG et al., "A MEMS Thermopneumatic silicone Membrane Valve," Proceedings of the IEEE 10th Annual Workshop of Micro Electro Mechanical Systems Workshop (MEMS '97), held 1/26-30/1997 in Nagoya, Japan, pages 114-118.	
	C62	YAZDI et al. "Micromachined Inertial Sensors," Proceedings of IEEE, 1998, 86(8):1640-1659.	
	C63	YOUNG et al. "Contoured elastic-membrane microvalves for microfluidic network integration," J. Biomechanical Engineering, 1999, 121:2-6.	
	C64	Zengerle et al., "A Micro Membrane Pump with Electrostatic Actuation," 1992 IEEE Conf. on Micro Electro Mechanical Systems, held 2/4-7/92 in Travemunde Germany, pgs. 19-24.	
C65	Zengerle et al., "Performance Simulation of Microminiaturized Membrane Pumps," from 7th International Conference on Solid-State Sensors and Actuators held 6/7-10/93 in Yokohama Japan, pages 106-109.		

Examiner Signature		Date Considered	11/8/2004
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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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